PATENT COOPERATION TREATY

INTERNATIONAL PRELIMINARY EXAMENING AUTHORITY

To:

Becker, Kurig, Straus DE-80336 Münd Germany

19. Juli 2004

NOTIFICATION OF TRANSMITTAL OF INTERNATIONAL PRELIMINARY **EXAMINATION REPORT**

(PCT Rule 71.1)

IMPORTANT NOTIFICATION

Date of mailing (day/month/year)

16-07-2004

Applicant's or agent's file reference

50970 WO

International filing date (day/month/year)

Priority date (day/month/year)

International application No. PCT/IB2002/001518

06-05-2002

Applicant

Nokia Corporation

et al

- The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.
- A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication 2. to all the elected Offices.
- Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.

REMINDER

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in som Offices) (Article 39(1)) (see also the reminder sent by the International Bureau with Form PCT/IB/301).

where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary axamination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

Name and mailing address of the IPEA/

Patent- och registreringsverket .

Box 5055 S-102 42 STOCKHOLM

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Telephone No.

08-782 25 00



INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	FOR FURTHER ACTION	See Form PCT/IPEA/416				
50970						
International application No.	International filing date (day/mor	nth/year) Priority date (day/month/year)				
PCT/IB2002/001518	06-05-2002					
International Patent Classification (IPC) o	r national classification and IPC					
H04Q 7/22						
Applicant		-				
Nokia Corporation et	al	<u>-</u>				
	climinary examination report, estab ansmitted to the applicant according	olished by this International Preliminary Examining ag to Article 36.				
2. This REPORT consists of a total of	of 3 sheets, includi	ng this cover sheet.				
3. This report is also accompanied by ANNEXES, comprising:						
N .						
	and to the International Bureau)					
sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).						
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes						
beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.						
b. (sent to the Internatio		te type and number of electronic carrier(s))				
, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the						
Administrative Instru						
4. This report contains indications re	•					
Box No. I Basis of	f the report					
Box No. II Priority	a) -					
Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability						
Box No. IV Lack of unity of invention						
Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial						
	cability; citations and explanations supporting such statement					
I <u></u>	documents cited					
	defects in the international application					
Box No. VIII Certain	observations on the international a	application .				
Date of submission of the demand	Date of	completion of this report				
16-09-2003	28-0	7-2004				
Name and mailing address of the IPEA/SI	∃ Author	ized officer				
Patent- och registreringsverket Box 5055						
S-102 42 STOCKHOLM	Pete	er Hedman/MN				
Faccimile No. +46 9 667 72 99		Tolombono No. 146 9 792 25 00				

Form PCT/IPEA/409 (cover sheet) (January 2004)

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

Box	x No. I	Basis of the report	
1.		regard to the language, this report is based on the international application in the vise indicated under this item.	language in which it was filed, unless
		This report is based on a translation from the original language into the following law which is the language of a translation furnished for the purposes of:	nguage ,
		international search (under Rules 12.3 and 23.1(b))	1
		publication of the international application (under Rule 12.4)	
		international preliminary examination (under Rules 55.2 and/or 55.3)	
2.	furnish	regard to the elements of the international application, this report is based on the determinant of the international application, this report is based on the determinant of the international application, this report is based on the determinant of the international application and invitation under Article 14 are referred to the international application of the international application.	
		the international application as originally filed/furnished	
	\boxtimes	the description:	
1		pages 1-9	as originally filed/furnished
		pages* received by this Authority on _	
	K7	pages* received by this Authority on _	
l	\bowtie	the claims:	
		pages	
			r with any statement) under Article 19
		pages* 10-12 received by this Authority on pages* received by this Authority on	
1		the drawings:	
	Ш		:-:
		pages 1 pages* received by this Authority on _	as originally filed/furnished
		pages* received by this Authority on	
		a sequence listing and/or any related table(s) - see Supplemental Box Relating to Se	
3.		The amendments have resulted in the cancellation of:	
		the description, pages	
		the claims, Nos.	
ļ		the drawings, sheets/figs	
		the sequence listing (specify):	
		any table(s) related to the sequence listing (specify):	
4.		This report has been established as if (some of) the amendments annexed to this made, since they have been considered to go beyond the disclosure as filed, as inc 70.2(c)).	
		the description, pages	
		the claims, Nos.	
		the drawings, sheets/figs	
		the sequence listing (specify):	
		the sequence listing (specify): any table(s) related to the sequence listing (specify):	
*	If item	4 applies, some or all of those sheets may be marked "superseded."	
	<i>ty</i>	+ applies, some or all of those sneets may be marked superseded.	

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY



			tep or industrial applicability;
:			
ity (N)	Claims Claims	1-16	YES NO
tive step (IS)	Claims Claims	1-16	YES NO
trial applicability (IA)	Claims Claims	1-16	YES NO
		citations and explanations supporting Ity (N) Claims Claims tive step (IS) Claims Claims Claims Craims	trial applicability (IA) Claims 1-16 Claims 1-16 Claims 1-16 T-16

2. Citations and explanations (Rule 70.7)

The claimed invention relates to a method, a Store-and Forward Entity and software adapted for delivering messages for which an unsuccessful attempt to deliver has been executed at a previous stage. The proposed delivering procedure is achieved by way of providing a presence service. A notification about the attainability of the receiving terminal device is received at a Store-and Forward entity upon discovering that the receiving entity is attainable.

In the international search report the following document was cited and was considered to be of relevant importance:

D1 WO 9926432 A1

The cited document represents the general state of the art. The invention defined in the amended claims 1-16 is not disclosed by this document.

The cited prior art does not give any indication that would lead a person skilled in the art to the claimed method of providing detailed differentiated information in order to indicate the acceptance of a message. Nor does the cited prior art lead a person skilled in the art to a software tool, a computer program or a Store-and-Forward Entity which is operating in accordance the method suggested in any of claims 1-8. Therefore, the claimed invention is not obvious to a person skilled in the art.

Accordingly, the invention defined in claims 1-16 is novel and is considered to involve an inventive step. The invention is industrially applicable.

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Application number:

PCT/IB 02/01518

DT01 Rec'd PCT/PTT

77 2 1 OCT 200

Applicant:

Nokia Corporation et al.

Date:

May 03, 2004

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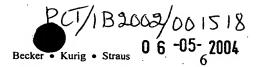
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New Claims

- 1. Method for delivering messages to a mobile terminal device in case of an unsuccessful message delivery attempt to said mobile terminal device from a Store-and-Forward Entity (SFE) of a mobile communication network having a presence service, said presence service providing an information about the attainability of said mobile terminal device, characterized by:
 - receiving a notification about an unsuccessful delivery attempt of said message, and
 - subscribing to said presence service for receipt of notifications about the attainability of said mobile terminal device,
 - checking availability information of said mobile terminal device in said presence service for an acceptance of said message by said mobile terminal device,
 - initiating a delivery attempt of said message to said mobile terminal device, in accordance with the result of said checking,
 - wherein said availability information for the acceptance of said messages by said mobile terminal device comprises information selected from a group of: type of message, size of the message, data content of the message, location of said mobile terminal device and willingness of a user of said mobile terminal device to receive a message.
- 2. Method according to claim 1, further comprising:
- receiving a status change notification message from said presence service about said mobile terminal device having a change of said availability information,
- starting a delivery attempt of said message to said mobile terminal device, in accordance with said received status change notification message.
- 30 3. Method according to claim 1 or 2, wherein said message is a multi media message.
 - 4. Method according to anyone of the preceding claims, further comprising receiving of said message to be transmitted to said mobile terminal device.
- 35 5. Method according to anyone of the preceding claims, further comprising checking availability information of said mobile terminal device in said presence service for the availability of said mobile terminal device.



- 6. Method according to anyone of the preceding claims, wherein said availability information for acceptance of said message is depending on properties of said message.
- 7. Method according to claim 6, wherein said properties are selected from a group comprising: message type, message size, sender type, and sender.

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- 8. Method according to anyone of the preceding claims, wherein said availability information of said mobile terminal device in said presence service can arbitrarily be changed by receiving said presence service status change message from said mobile terminal device.
- 9. Software tool for performing a delivery attempt of a message to a mobile terminal device in accordance with the information related to the availability status of said mobile terminal device in a communication network, comprising program code means for carrying out the steps of anyone of claims 1 to 8 when said software tool is implemented in a program run on a Store-and-Forward Entity or a network device.
- 10. Computer program for performing a delivery attempt of a message to a mobile terminal device in accordance with the availability status of said mobile terminal device in a communication network, comprising program code means for carrying out the steps of anyone of claims 1 to 8 when said program is run on a Store-and-Forward Entity or a network device.
- 11. Computer program product comprising program code means stored on a computer readable medium for carrying out the method of anyone of claims 1 to 8 when said program product is run on a Store-and-Forward Entity or a network device.
- 12. Store-and-Forward Entity connected to a mobile communication network having a presence service for store-and-forwarding a message to a mobile terminal device, characterized by:
- a component for receiving a notification about an unsuccessful delivery attempt of said message, and
- a component for subscribing to said presence service for receipt of notifications about the attainability status of said mobile terminal device, and
- said presence service,
 wherein said presence service provides an information about acceptance of said message selected from the group comprising: message type, message size, message content, sender

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type, sender, and location of said mobile terminal device.

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- 13. Store-and-Forward Entity according to claim 12, further characterized by:
- a component for checking availability information of a presence service for an acceptance of said message by said mobile phone, and
- a component to initiate a delivery attempt of said message to said mobile terminal device, in accordance with the operation of said checking component.
- 14. Store-and-Forward Entity according to claim 13, further comprising a component for 10 checking availability information of said presence service for the availability of said mobile terminal device.
 - 15. Store-and-Forward Entity according to claim 13 or 14, further comprising a component for receiving messages to be transmitted to said mobile terminal device.
 - 16. Store-and-Forward Entity according to anyone of the claims 12 to 15, further comprising a component to change said availability information in said presence service of said mobile terminal device according to the reception of a presence service status change message from said mobile terminal device.